



### Reduction in Joint Swelling in STIgMA-Fc Treated Mice

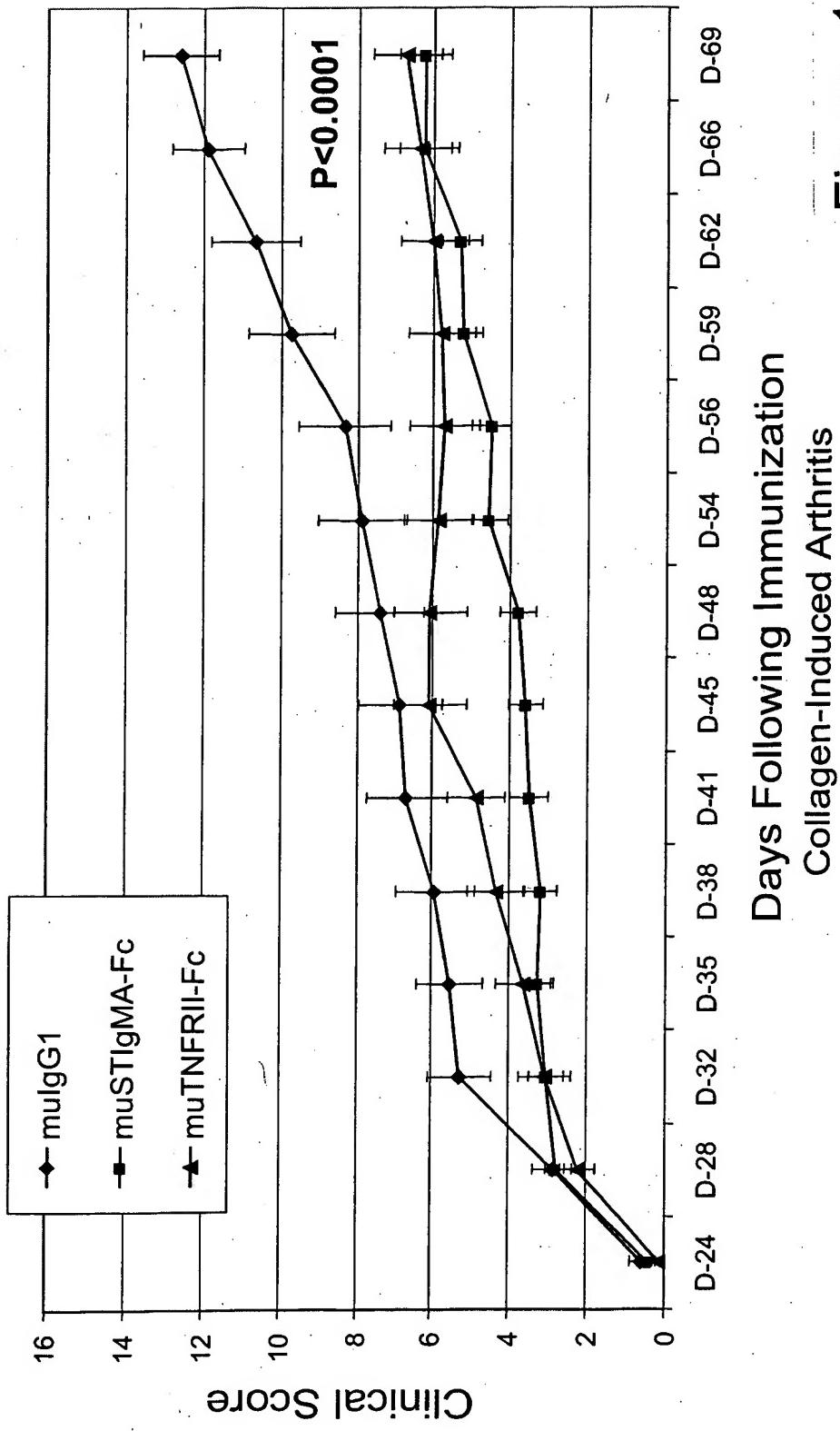


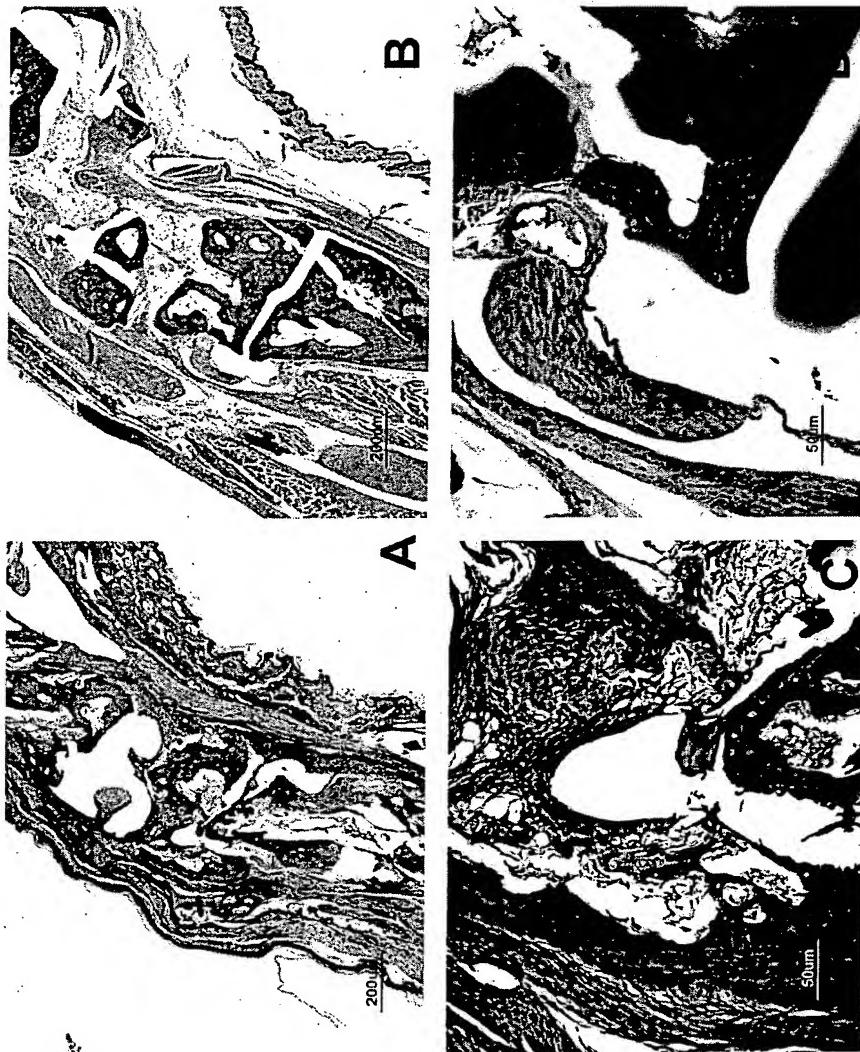
Figure 1

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+  
muSTIgMA-Fc Inhibits Joint Inflammation

mulgG1

muSTIgMA-Fc



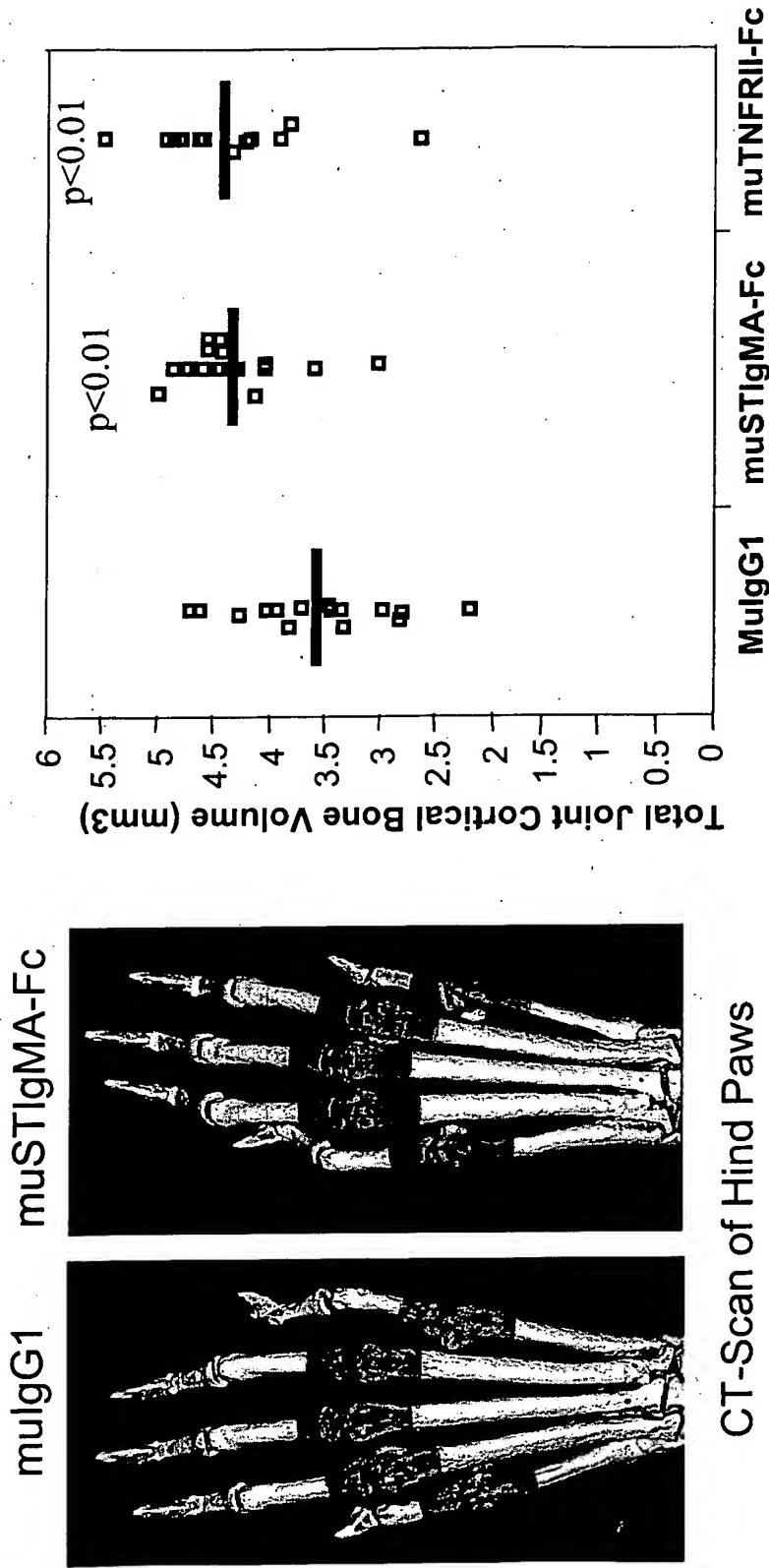
H&E staining on paraffin-embedded tissue  
Collagen-induced arthritis day 70

Figure 2

+

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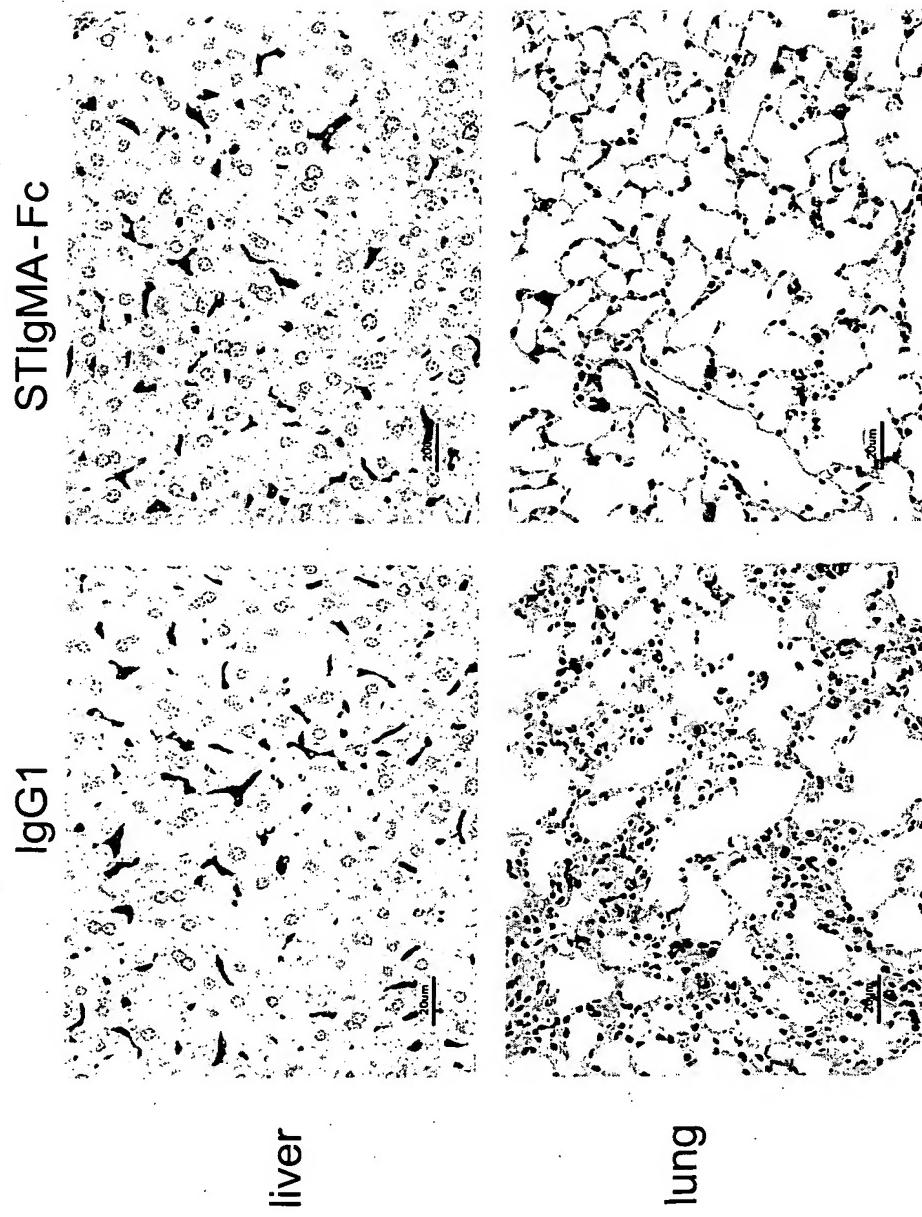
Preservation of Cortical Bone Volume in joints of mice treated  
with muSTIgMA-Fc



Collagen-induced arthritis day 70

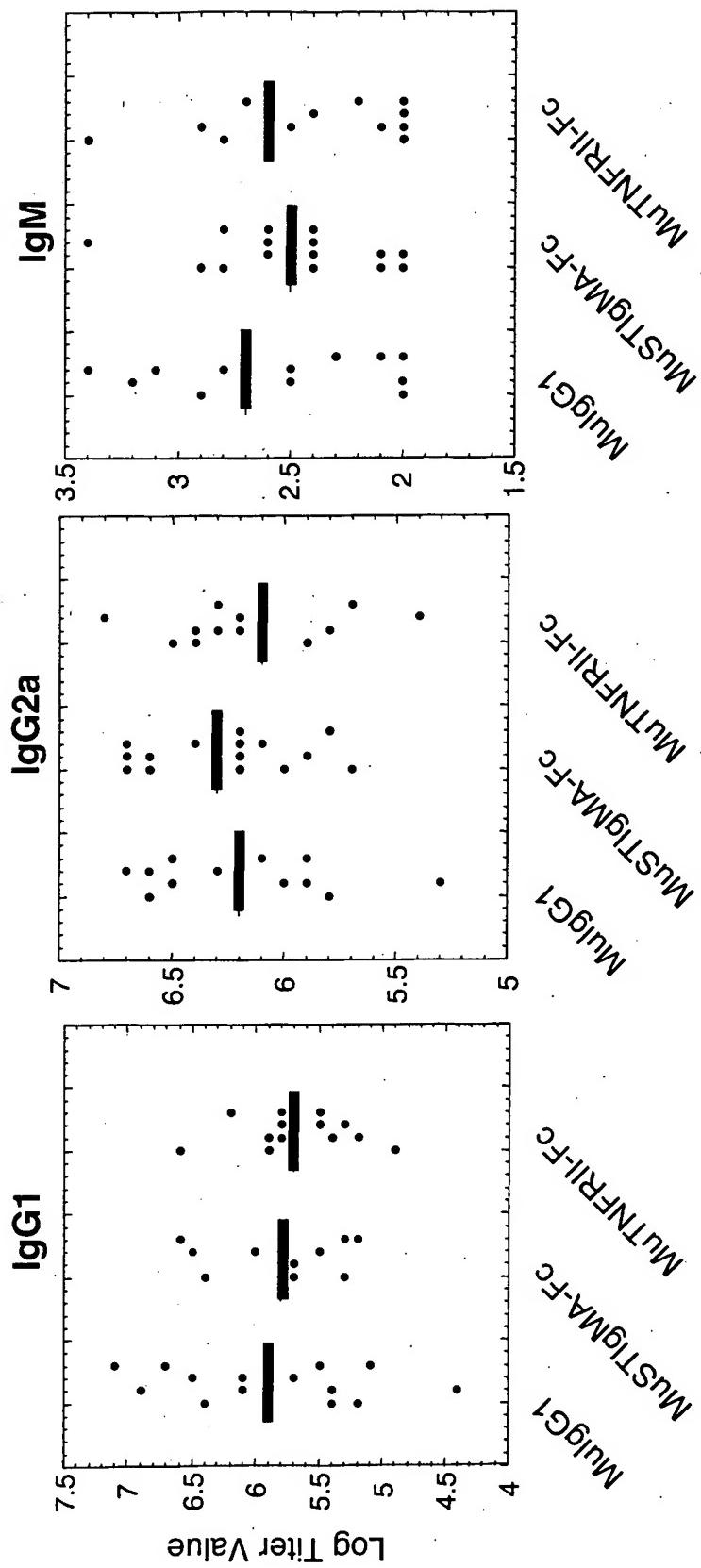
Figure 3

STIgMA-Fc treatment does not alter the number nor morphology of tissue resident macrophages



**Figure 4**  
Collagen-induced arthritis day 70

+  
muST IgMA-Fc treatment does not affect serum  
anti-collagen antibody titers

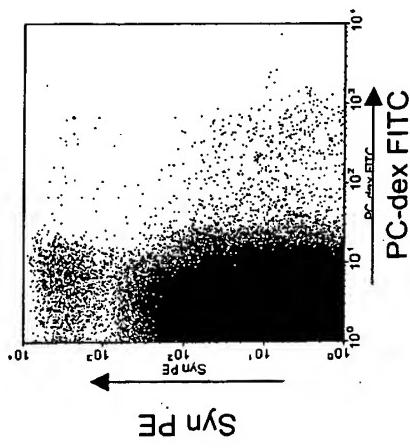


Anova test shows no difference between groups  
Collagen-induced arthritis day 70

Figure 5

### muST IgMA-Fc does not alter T-Independent B cell responses *in vivo*

Unimmunized mice



*S. pneumoniae* immunized mice

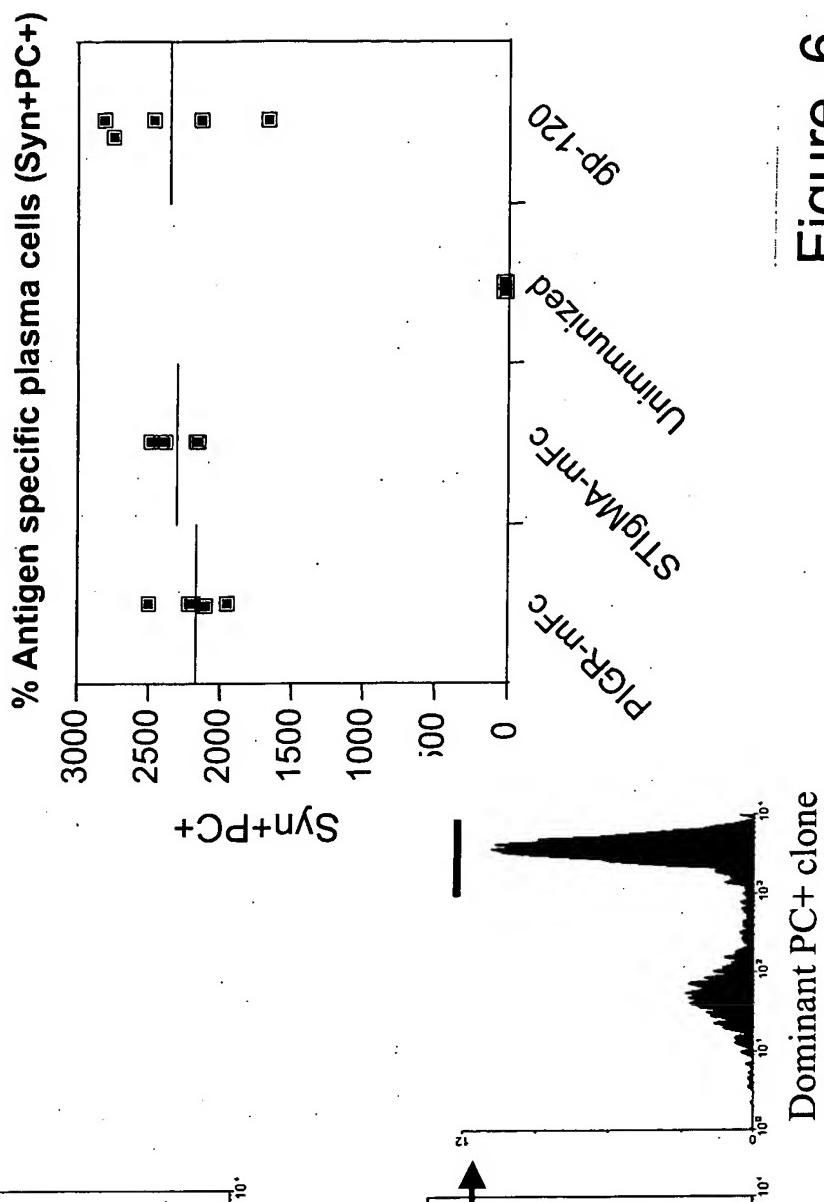
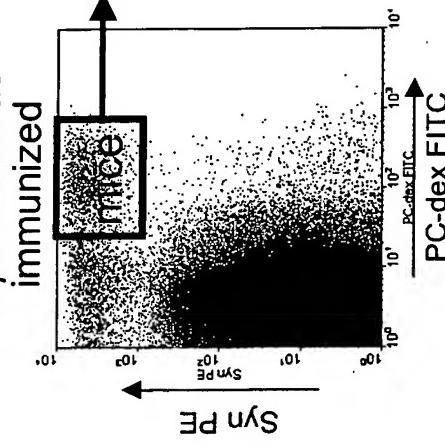
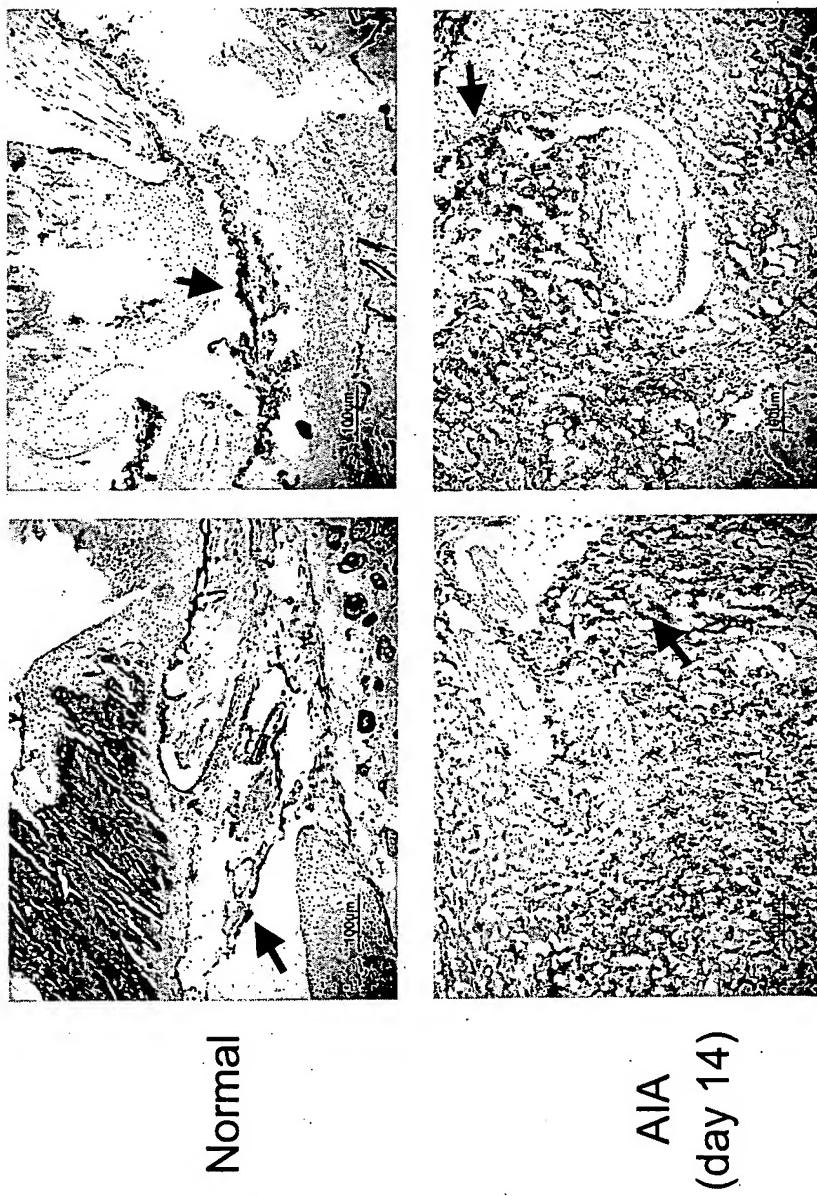


Figure 6  
Dominant PC+ clone

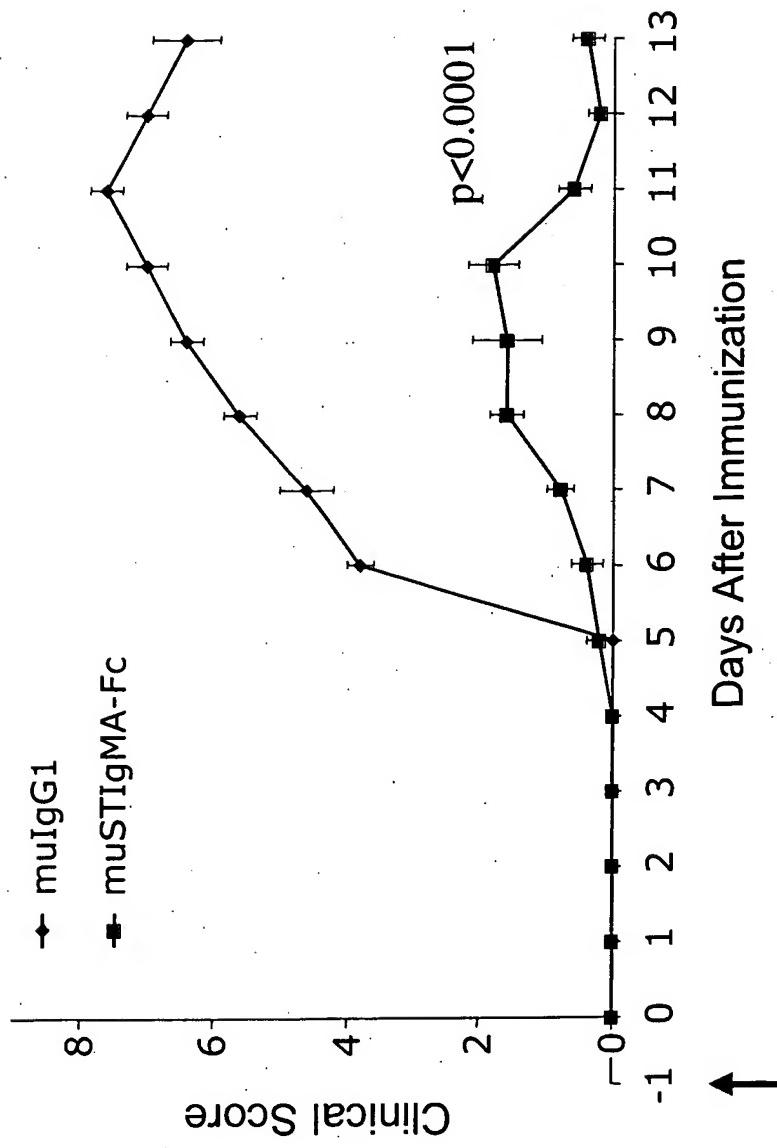
Macrophage infiltration in joints following  
antibody-induced arthritis (AIA)



F4/80 staining in undecalcified frozen joints

Figure 7

MuSTIgMA-Fc prevents joint swelling following antibody-induced arthritis in balb/c mice



↑  
mSTIgMA-Fc treatment start

Figure 8

MuSTIgMA-Fc inhibits joint inflammation in antibody-induced arthritis

mulgG1



muSTIgMA-Fc



- Control treated mice (mulgG1) have moderate to severe arthritis (left)
- MuSTIgMA-Fc treated mice have minimal to no arthritis (right)

H&E staining

Figure 9